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Haak-Frendscho et al.

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[54] **NON-INVASIVE DIAGNOSTIC METHOD
FOR INTERSTITIAL CYSTITIS AND
BLADDER CANCER**

[75] Inventors: **Mary Haak-Frendscho; Angela J.
Okragly; Andrew L. Niles; Ricardo
Saban**, all of Madison, Wis.

[73] Assignee: **Promega Corporation**, Madison, Wis.

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435/7.94**

[58] **Field of Search** **435/7.1, 7.23,
435/7.94, 7.92, 7.9**

[56] **References Cited**

U.S. PATENT DOCUMENTS

5,503,986	4/1996	Steers et al.	435/7.92
5,594,116	1/1997	Niles et al.	530/413

Primary Examiner—Paula K. Hutzell

Assistant Examiner—Lin Sun-Hoffman

Attorney, Agent, or Firm—DeWitt Ross & Stevens SC

[57] **ABSTRACT**

Disclosed is a method of diagnosing or monitoring interstitial cystitis or bladder cancer in a mammal. The method comprises analyzing urine of the mammal for the concentration of a urine-soluble protein selected from the group consisting of neurotrophin-3, nerve growth factor, glial cell line-derived neurotrophic factor, tryptase, and combinations thereof.

25 Claims, 5 Drawing Sheets